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## **AMENDMENTS IN THE CLAIMS**

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- 1. (Previously presented) A method comprising the steps of: 2 sending one or more upstream signals as pulse code modulated data without packet 3 headers using an upstream cable protocol, wherein at least one of the one or more upstream 4 signals is a video signal; 5 sending one or more downstream signals as pulse code modulated data without packet 6 headers using a downstream cable protocol; and 7 enclosing the one or more downstream signals as the pulse code modulated data without 8 application-level packet headers in a Motion Pictures Experts Group (MPEG) transport. 2. (Previously presented) The method of claim 1, wherein the upstream protocol is Data-1 Over-Cable System Interface Specification (DOCSIS). 2 1 3. (Original) The method of claim 1, wherein the step of sending one or more upstream 2 signals comprises mapping one or more pulse code modulated samples of the one or more 3 signals taken at a sampling interval to an allocation of mini-slots in the upstream protocol.
- 1 5. (Original) The method of claim 1, further comprising the step of multiplexing two or 2 more signals in one mini-slot in the upstream protocol.

and the mini-slots occur at 6.25 microsecond intervals.

4. (Original) The method of claim 3, wherein the sampling interval is 125 microseconds

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1	6. (Previously presented) The method of claim 1, wherein the downstream protocol	is
2	Data-Over-Cable System Interface Specification (DOCSIS).	

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- 7. (Original) The method of claim 1, wherein the step of sending one or more downstream signals comprises mapping one or more pulse code modulated samples of the one or more signals taken at a sampling interval to a Motion Pictures Experts Group (MPEG) transport layer.
- 8. (Original) The method of claim 1, wherein the step of sending one or more downstream signals comprises multiplexing multiple signals within a single Motion Pictures
  Experts Group (MPEG) packet identifier.
- 9. (Original) The method of claim 1, wherein the method is performed in a cable system having a media terminal adapter (MTA), such that subscriber signalling functionality is reduced in the MTA.
- 1 10. (Original) The method of claim 1, wherein the method reduces throughput delay and 2 jitter for signals, thereby improving signal quality over existing transport methods.
- 1 11. (Currently amended) The method of claim 1, wherein [[the]] at least one of the one or more upstream signals and the one or more downstream signals is a voice signal.
- 1 12. (Original) The method of claim 1, wherein at least one of the one or more upstream
  2 signals and the one or more downstream signals is a video signal.

- 1 13.-20. (Canceled)
- 1 21. (Previously presented) A method comprising the steps of:
- 2 providing one or more signals at a sampling interval, yielding pulse code modulated
- 3 (PCM) data;
- 4 transporting downstream signals as the PCM data without packet headers over a cable
- 5 media using a downstream cable protocol, wherein at least one of the downstream signals is a
- 6 video signal; and
- 7 enclosing the downstream signals as the pulse code modulated data without application-
- 8 level packet headers in a Motion Pictures Experts Group (MPEG) transport.
- 1 22. (Previously presented) The method of claim 21, wherein the downstream protocol is
- 2 Data-Over-Cable System Interface Specification (DOCSIS).
- 1 23. (Original) The method of claim 21, wherein the step of providing the one or more
- 2 signals comprises mapping each byte of pulse code modulated data to a Motion Pictures Experts
- 3 Group (MPEG) transport layer.
- 1 24. (Original) The method of claim 21, wherein the step of providing the one or more
- 2 signals comprises multiplexing multiple signals within a single Motion Pictures Experts Group
- 3 (MPEG) packet identifier.
- 1 25. (Original) The method of claim 21, wherein the method reduces throughput delay and
- 2 jitter for signals, thereby improving signal quality over existing transport methods.

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- 1 26. (Original) The method of claim 21, wherein at least one of the one or more signals is 2 a voice signal.
- 27. (Original) The method of claim 21, wherein at least one of the one or more signals is a video signal.
- 1 28. (Previously presented) An apparatus comprising:
- 2 a sampler, arranged and constructed to sample one or more signals at a sampling interval,
  3 yielding pulse code modulated (PCM) data; and
- a transport device, arranged and constructed to transport the PCM data without packet headers over a cable media using an upstream cable protocol;
- wherein the transport device transports downstream signals enclosed as the pulse code modulated data without application-level packet headers in a Motion Pictures Experts Group (MPEG) transport, and wherein at least one of the downstream signals is a video signal.
- 29. (Previously presented) The apparatus of claim 28, wherein the upstream protocol is
  Data-Over-Cable System Interface Specification (DOCSIS).
- 30. (Original) The apparatus of claim 28, wherein the step of sampling the one or more signals comprises mapping each byte of pulse code modulated data to one of a plurality of mini3 slots in the upstream protocol.
- 1 31. (Original) The apparatus of claim 30, wherein the sampling interval is 125 microseconds and each of the plurality of mini-slots occurs at 6.25 microsecond intervals.

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- 1 32. (Original) The apparatus of claim 28, further comprising a multiplexor for multiplexing two or more signals in one mini-slot in the upstream protocol.
- 33. (Original) The apparatus of claim 28, wherein the apparatus reduces throughput delay and jitter for signals, thereby improving signal quality over existing transport methods.
- 1 34. (Original) The apparatus of claim 28, wherein at least one of the one or more signals
  2 is a voice signal.
- 1 35. (Previously presented) The apparatus of claim 28, wherein at least one of the one or more signals is the video signal.
- 1 36. (Original) The apparatus of claim 28, wherein the apparatus is part of a media 2 terminal adapter.
- 1 37. (Canceled)
- 1 38. (Currently amended) The method of claim 1, wherein the step of sending one or more
- 2 upstream signals further comprises [[the]] a step of sending the one or more upstream signals as
- 3 pulse code modulated data in a form that allows transfer to Public Switched Telephone Network
- 4 (PSTN) without transcoding the pulse code modulated data of the one or more upstream signals.
- 1 39. (New) The method of claim 1, wherein the upstream cable protocol utilizes
- 2 Frequency Division Multiple Access burst modulation format.

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1 40. (New) The method of claim 1, wherein the upstream cable protocol utilizes Time

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2 Division Multiple Access burst modulation format.